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Using densely recorded scenes for place recognition

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Abstract

We investigate the task of efficiently modeling a scene to build a robust place recognition approach which involves densely capturing a place with video recordings to greedily cover viewpoints of the place as possible. Our contribution is a framework to (1) effectively exploit continuity intrinsic in the video sequences to reduce the amount of data to process without visual information which describes a place, and (2) train discriminative classifiers with the place recognition. We show that our method is more efficient and effective than straightforward scene or object category recognition methods on the video frames.

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